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Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1.-7. (Canceled)

8. (New) A method for producing a honeycomb structure including a step of plugging up a plurality of cells at either of end faces of a honeycomb formed body having two end faces and a plurality of cells passing from one end face to another end face, characterized in that the step of plugging up the cells includes a first substep of adhering a film to either of the end faces, a second substep of boring holes through the film at specified positions corresponding to the cells to be plugged up by a high-density energy beam and a third substep of packing a plugging material in the cells to be plugged up, and the film used at the first substep comprises a substrate layer and an adhesive layer and has an adhesive force of 3-15 N/25 mm.

9. (New) A method for producing a honeycomb structure according to claim 8 which includes a forming step of forming the honeycomb formed body and a firing step of firing the formed body plugged at the plugging-up step.

10. (New) A method for producing a honeycomb structure according to claim 8, wherein the thickness of the film is 10-70 μm .

11. (New) A method for producing a honeycomb structure according to claim 9, wherein the thickness of the film is 10-70 μm .

12. (New) A method for producing a honeycomb structure according to claim 8, wherein the thickness of the substrate layer is 5-40 μm .

13. (New) A method for producing a honeycomb structure according to claim 8, wherein the thickness of the adhesive layer is 5-40 μm .

14. (New) A method for producing a honeycomb structure according to claim 8, wherein the substrate layer is mainly composed of a polyester or a polyolefin.

15. (New) A method for producing a honeycomb structure according to claim 12, wherein the substrate layer is mainly composed of a polyester or a polyolefin.

16. (New) A method for producing a honeycomb structure according to claim 8, wherein the adhesive layer is mainly composed of an acrylic adhesive material.

17. (New) A method for producing a honeycomb structure according to claim 13, wherein the adhesive layer is mainly composed of an acrylic adhesive material.